



Fourth GAIN World Conference

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British Airways Safety Management Systems

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British Airways



Safety Management in

BRITISH AIRWAYS



- **Safety Services - Independent of Operational Departments**
- **Safety is Responsibility of Line Departments
- and all employees**
- **Tools - one element of Safety Management**



Safety Management Systems

- **Human Reporting**
- **Flight Operations Quality Assurance**
- **Audit, Risk Assessment**
- **Widely used**
 - **Safety Services**
 - **Line Departments**



Safety Management Systems

Single Event Requirements

- **Record**
- **Accessible**
- **Volume**
- **Types**
- **Action Allocation**
- **Monitoring**
- **Automate data import / export**
- **Audit trail**



Safety Management Systems

***How safe are we ?
Can we demonstrate it ?***

- **Data Structure**
- **Consistency**
- **Risk**
- **Filtering**
- **Trend Analysis**
- **Data Exchange**



Safety Management Systems

Optimising Benefits

- **Garbage in - Garbage out**
- **Data entry vs Information extraction**
- **How do we minimise entry effort and free resource for information extraction ?**
- **Data mining must not place an unrealistic burden on data entry**

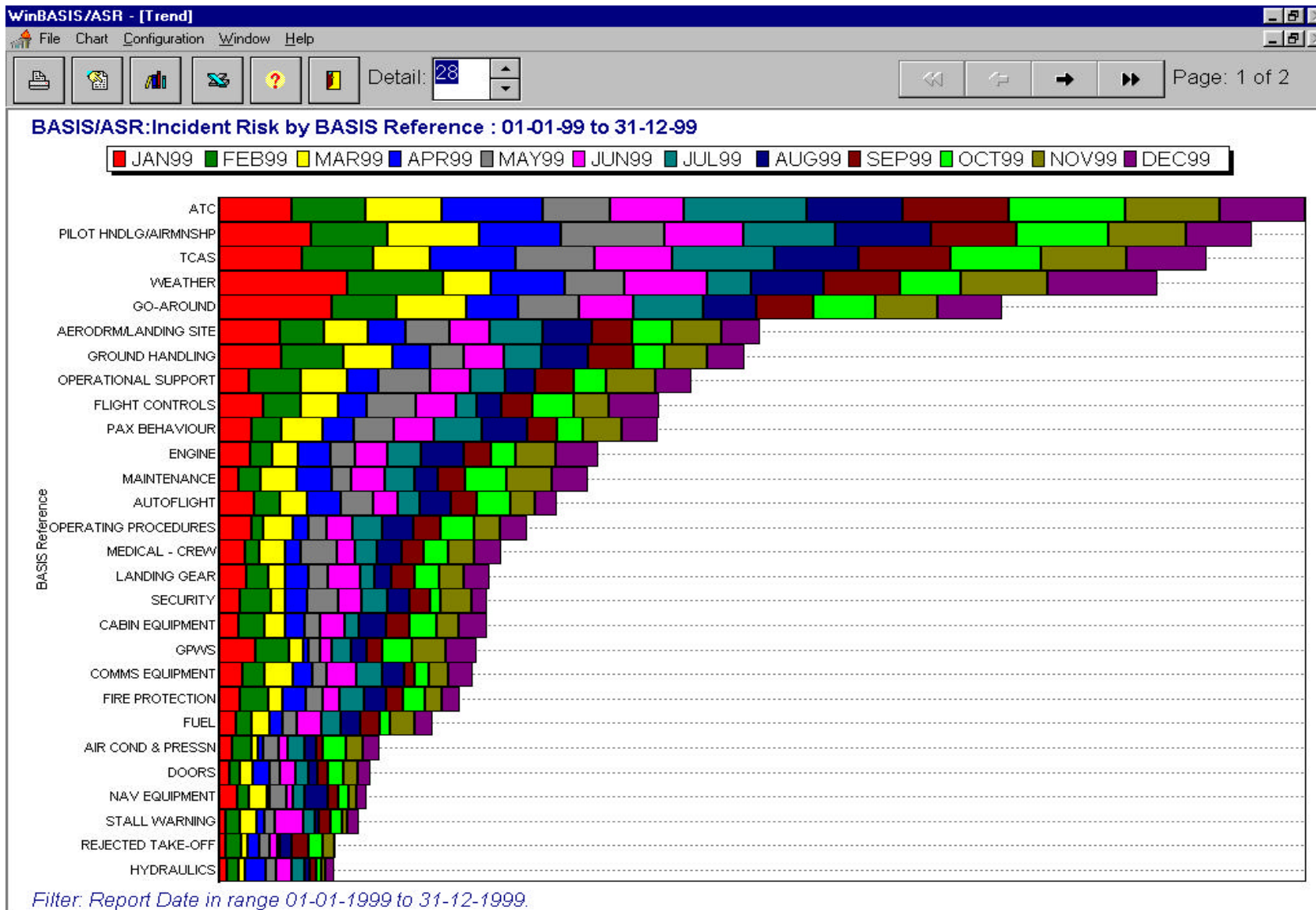


Safety Management Systems

British Airways Safety Information System



- **Used by BA for over 10 years**
- **Used by 100 Airlines and aviation organisations**
- **Safety Information Exchange**
 - **Almost 40 airlines**

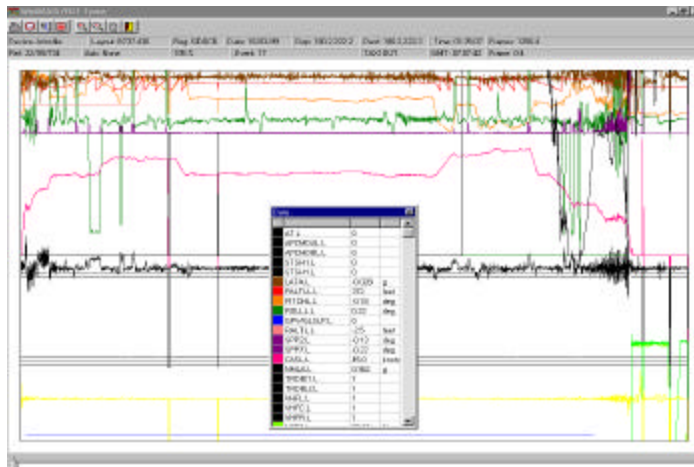




Safety Management Systems

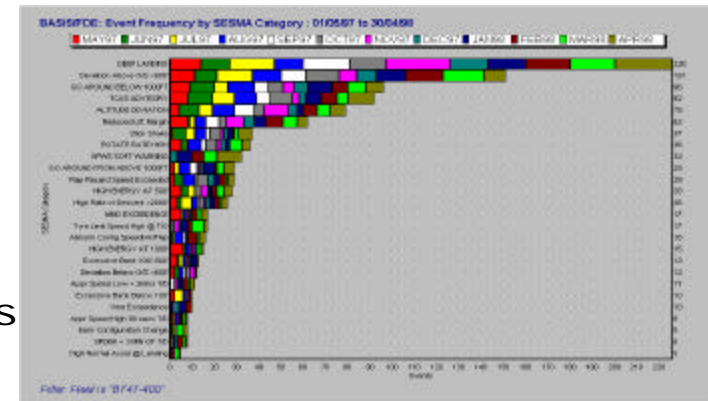
Flight Operations Quality Assurance

- **Single Event**
- **Trend Analysis**



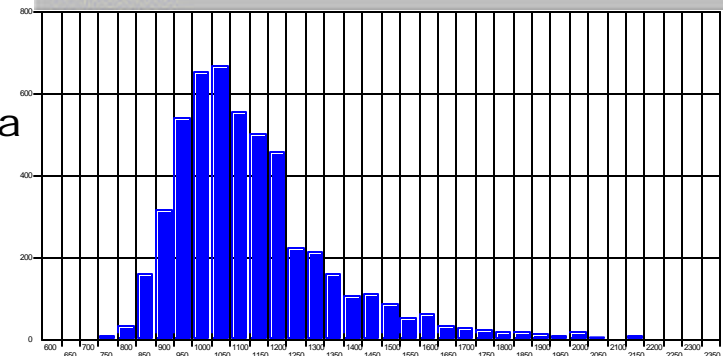
Flight Data Traces

Flight Data Exceedences



Flight Data

Max Frequency

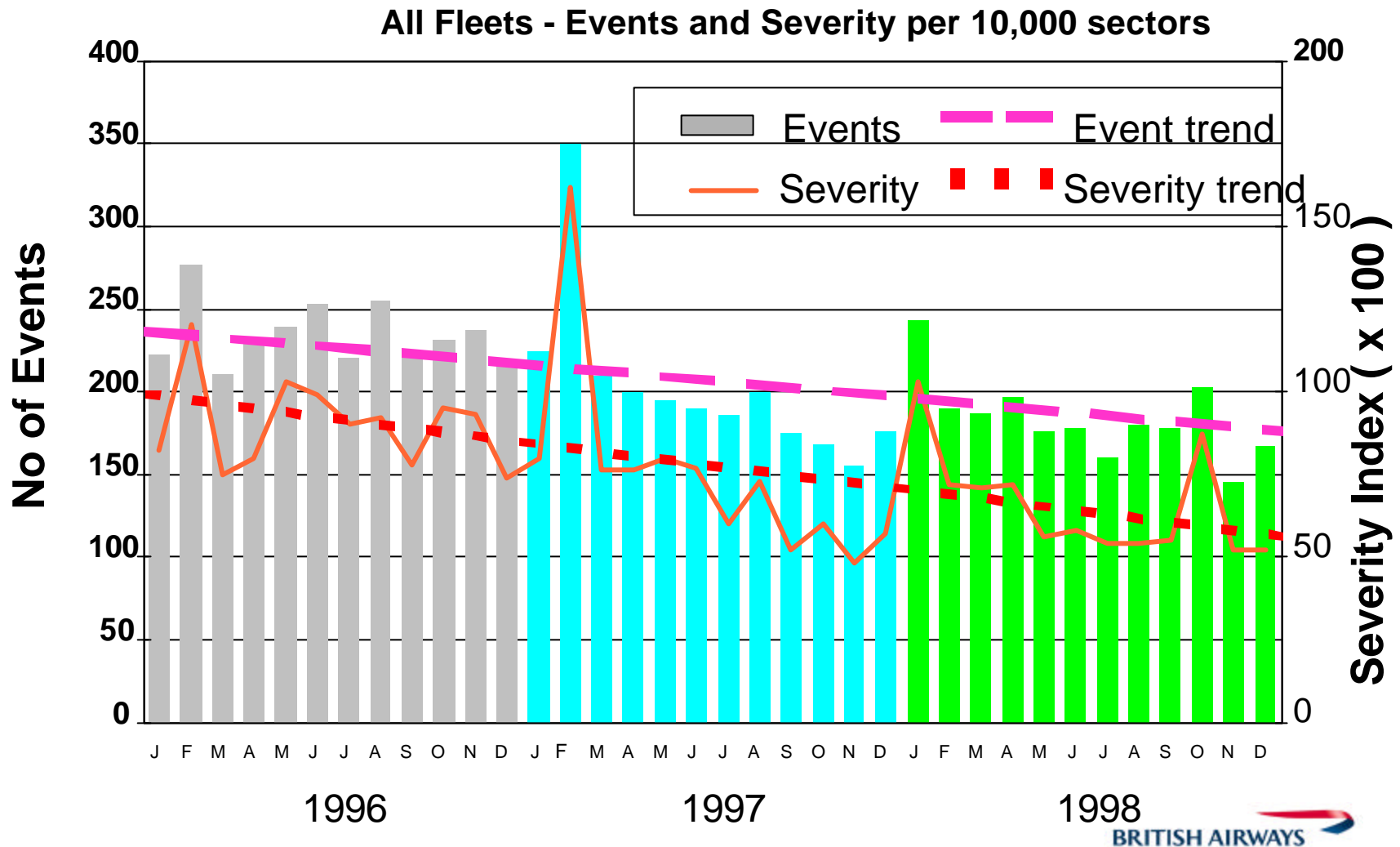


Flight Data Simulations





Event & Severity Trends





Safety Management Systems

- **Large Volumes of Data**
- **Minimise Data Entry Burden**
- **Apply Resource to Information Extraction**
- **Facilitate Information Exchange**



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Safety Management Systems



Action



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Thank You

Tom O'Kane

British Airways Safety Services